



DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) <input checked="" type="checkbox"/> Declaration Submitted with Initial Filing OR <input type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	Attorney Docket Number	06381P USA
	First Named Inventor	Aaron Scott Lukas, et al.
	COMPLETE IF KNOWN	
	Application Number	10/624,357
	Filing Date	21 July 2003
	Group Art Unit	1762
	Examiner Name	

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

MECHANICAL ENHANCEMENT OF DENSE AND POROUS ORGANOSILICATE MATERIALS BY
UV EXPOSURE

(Title of the Invention)

the specification of which

☐ is attached hereto

OR

☒ was filed on (MM/DD/YYYY)

21 July 2003

as United States Application Number or PCT International

Application Number 10/624,357 and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

[Page 1 of 2]

Please type a plus sign (+) inside this box → ☐

PTO/SB/01 (10-00)
Approved for use through 10/31/2002. OMB 0651-0032

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DECLARATION — Utility or Design Patent Application

Direct all correspondence to: <input checked="" type="checkbox"/> Customer Number or Bar Code Label		23543		OR <input type="checkbox"/> Correspondence address below	
Name					
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<p>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.</p>					
NAME OF SOLE OR FIRST INVENTOR :			<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name (first and middle (if any)) Aaron Scott			Family Name or Surname Lukas		
Inventor's Signature <i>Aaron Scott Lukas</i>				Date <i>July 21, 2003</i>	
Residence: City Lansdale		PA State	USA Country	USA Citizenship	
Mailing Address 100 Venable Court 107 Finch Run					
Mailing Address					
City Lansdale	PA State	ZIP 19446	USA Country		
NAME OF SECOND INVENTOR:			<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name (first and middle (if any)) Mark Leonard			Family Name or Surname O'Neill		
Inventor's Signature <i>Mark Leonard O'Neill</i>				Date <i>July 21, 2003</i>	
Residence: City Allentown		PA State	USA Country	Canada Citizenship	
Mailing Address 830 N. 30th Street					
Mailing Address					
City Allentown	PA State	ZIP 18104	USA Country		
<input checked="" type="checkbox"/> Additional inventors are being named on the <u>2</u> supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.					

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PTO/SB/02A (11-00)
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DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental Sheet
Page 1 of 2

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Jean Louise		Vincent	
Inventor's Signature <i>Jean Louise Vird</i>		Date <i>July 25, 2003</i>	
Residence: City	Bethlehem	PA State	USA Country
Mailing Address 3943 Suncrest Lane			
Mailing Address			
City	Bethlehem	PA State	18020 USA Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Raymond Nicholas		Vrtis	
Inventor's Signature <i>Raymond Nicholas Vrtis</i>		Date <i>July 21, 2003</i>	
Residence: City	Orefield	PA State	USA Country
Mailing Address 1510 Randi Lane			
Mailing Address			
City	Orefield	PA State	18069 USA Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Mark Daniel		Bitner	
Inventor's Signature <i>Mark Daniel Bitner</i>		Date <i>July 21, 2003</i>	
Residence: City	Nazareth	PA State	USA Country
Mailing Address 17 East High Street			
Mailing Address			
City	Nazareth	PA State	18064 USA Country

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

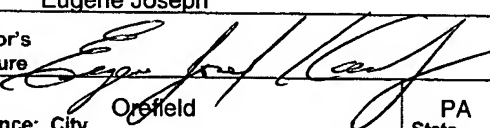
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DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental Sheet
Page 2 of 2

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Eugene Joseph		Karwacki, Jr.	
Inventor's Signature 		Date <u>July 25, 2003</u>	
Residence: City	Orefield	PA State	USA Country
Mailing Address 5620 Snowdrift Lane			
Mailing Address			
City	Orefield	PA State	18069 ZIP
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Inventor's Signature		Date	
Residence: City		State	Country
Mailing Address			
Mailing Address			
City		State	ZIP
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Inventor's Signature		Date	
Residence: City		State	Country
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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Aaron Scott Lukas, et al.
Application No./Patent No.: 10/624,357 Filed/Issue Date: 21 July 2003
Entitled: Mechanical Enhancement of Dense and Porous Organosilicate...
Air Products and Chemicals, Inc., a corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.
The extent (by, percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☐ Copies of assignments or other documents in the chain of title are attached.
[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

28 October 2003

Date

Mark L. Rodgers

Typed or printed name

[Signature]
Signature

Assistant General Counsel, Patents

Title

ASSIGNMENT

For value received, we, Aaron Scott Lukas, Mark Leonard O'Neill, Jean Louise Vincent, Raymond Nicholas Vrtis, Mark Daniel Bitner, and Eugene Joseph Karwacki, Jr., hereby sell, assign, and transfer to **AIR PRODUCTS AND CHEMICALS, INC.**, a corporation of the State of Delaware, having an office at 7201 Hamilton Boulevard, Allentown, PA 18195-1501, the entire right, title, and interest in and to the invention relating to

**MECHANICAL ENHANCEMENT OF DENSE AND POROUS ORGANOSILICATE
MATERIALS BY UV EXPOSURE**

described in our application for Letters Patent of the United States (identified by Docket No. 06381P USA) executed of even date herewith, in and to all Letters Patent which may be issued upon said application, in and to any divisional or reissue applications based thereon, and in and to all Letters Patent upon said invention or improvements which may be granted in foreign countries. We hereby also assign and convey to said **AIR PRODUCTS AND CHEMICALS, INC.**, all the rights accruing to us by virtue of the International Convention for the Protection of Industrial Property (Art. 4), including the right to apply for and to have patents issued in its own name.

And we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and the Officials of the Patent Offices of all other countries to issue the Letters Patent of their respective countries to said **AIR PRODUCTS AND CHEMICALS, INC.**, as assignee of the entire right, title, and interest in and to the same.

And we hereby promise and agree to execute all papers and perform all acts necessary to secure to and vest in said **AIR PRODUCTS AND CHEMICALS, INC.**, its successors and assigns, the rights conveyed as herein set forth.

<u>Aaron Scott Lukas</u> (L.S.)	<u>Mark Leonard O'Neill</u> (L.S.)
Aaron Scott Lukas	Mark Leonard O'Neill
<u>July 21, 2003</u>	<u>July 21, 2003</u>
Date	Date

<u>Jean Louise Vincent</u> (L.S.)	<u>Raymond Nicholas Vrtis</u> (L.S.)
Jean Louise Vincent	Raymond Nicholas Vrtis
<u>July 25, 2003</u>	<u>JULY 21, 2003</u>
Date	Date

<u>Mark Daniel Bitner</u> (L.S.)	<u>Eugene Joseph Karwacki, Jr.</u> (L.S.)
Mark Daniel Bitner	Eugene Joseph Karwacki, Jr.
<u>July 21, 2003</u>	<u>July 25, 2003</u>
Date	Date



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Application Number	10/624,357
Filing Date	21 July 2003
First Named Inventor	Aaron Scott Lukas, et al.
Title	Mechanical Enhancement...
Group Art Unit	1762
Examiner Name	
Attorney Docket Number	06381P USA

I hereby appoint:

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☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

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Address			
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Country			
Telephone	Fax		

I am the:

☐ Applicant/Inventor;

☐ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name	Mark L. Rodgers
Signature	<i>Mark L. Rodgers</i>
Date	28 October 2003

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted.